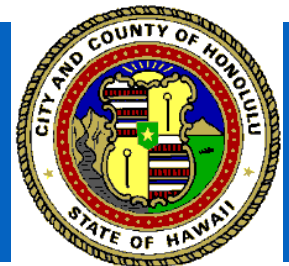




UPDATE ON THE CITY'S RULES RELATING TO WATER QUALITY

September 20, 2017

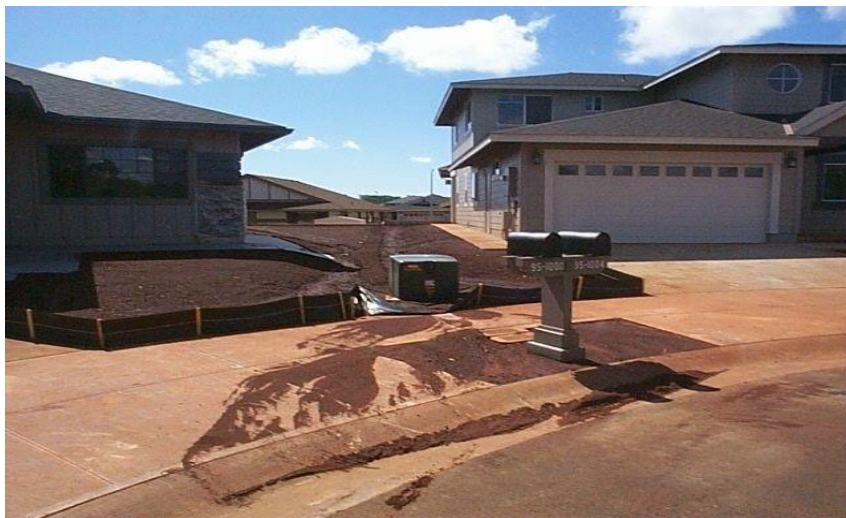
DEPARTMENT OF FACILITY MAINTENANCE
STORM WATER QUALITY BRANCH
RANDALL WAKUMOTO, BRANCH HEAD



WHY ARE WE HERE?



WHY ARE WE HERE?



WHY ARE WE HERE?

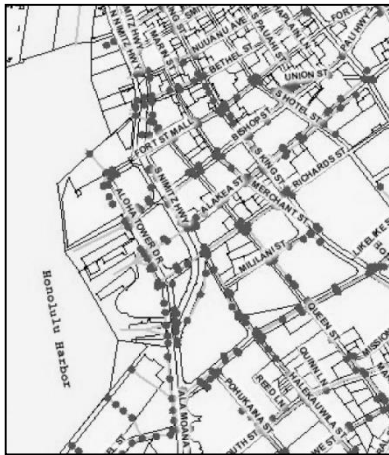


WHY IS THIS IMPORTANT?



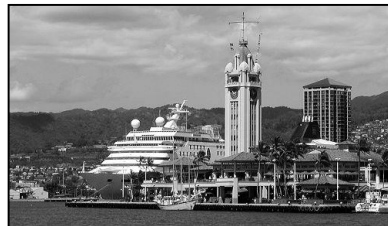
BACKGROUND

MUNICIPAL SEPARATE STORM SEWER SYSTEM



(MS4)

discharge



RECEIVING WATERS



MS4 PERMIT

Reissued JAN 15, 2015

Permit Became
Effective on FEB. 16,
2015

Permit Expires on
JAN 15, 2020

STORM WATER MANAGEMENT PROGRAM REQUIRED ELEMENTS

Public Participation &
Outreach



Pollution Prevention
and Good Housekeeping

Construction
Site Runoff
Control



Post Construction
Storm Water
Management



Illicit Discharge
Detection &
Elimination



Monitoring &
Implementation
Plans

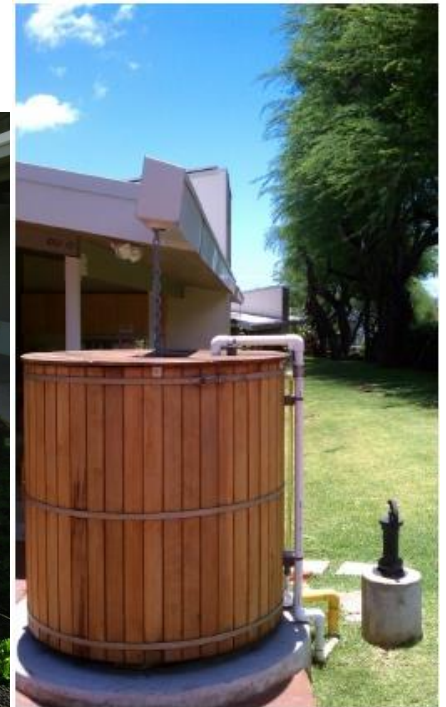


Industrial & Commercial
Discharge

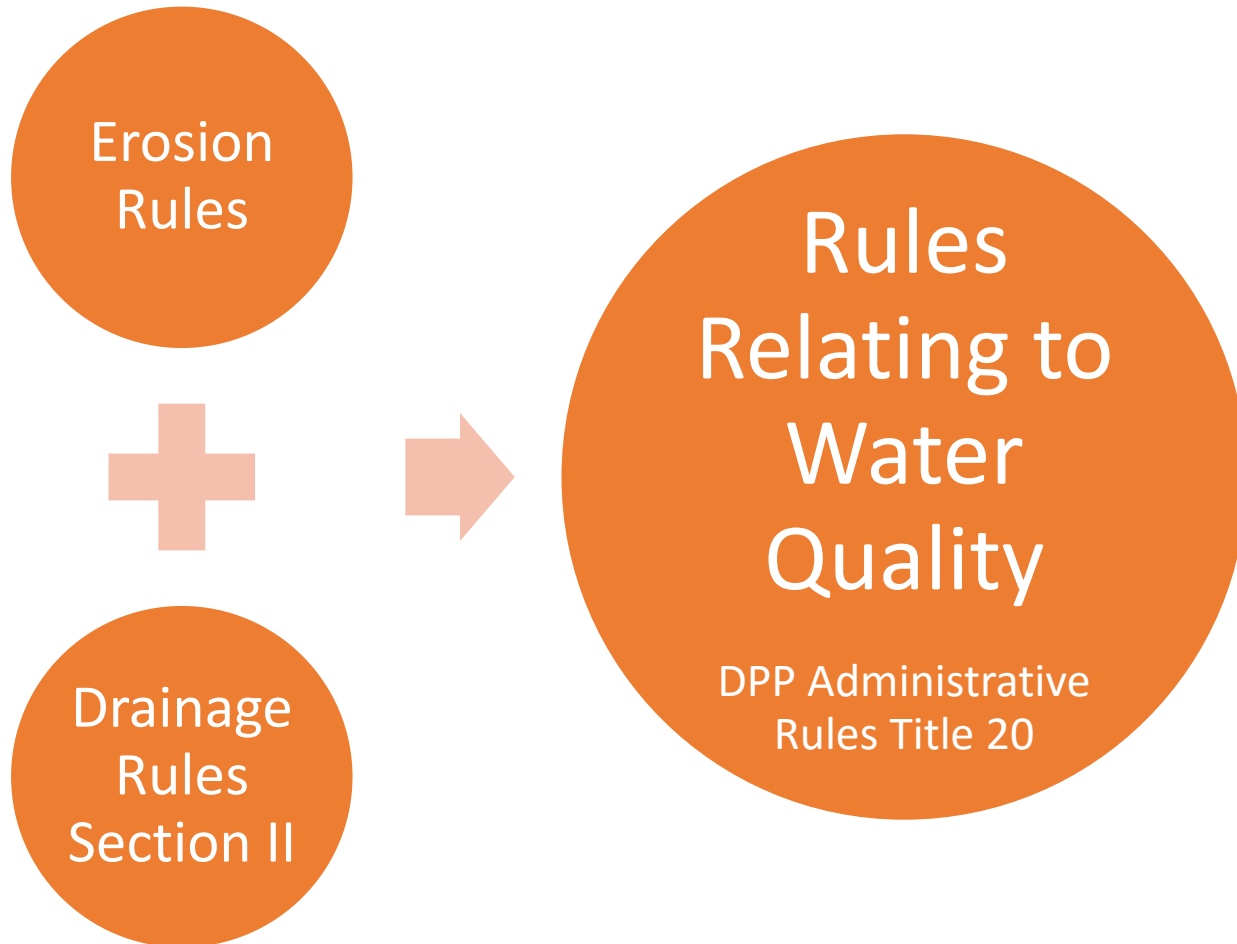


Water Quality Rules

- Public Notice published on July 1, 2016
- Public Hearing hearing held on August 4, 2016
- Rules adopted on October 10, 2016
- Effective on August 16, 2017



One DPP Rule for Water Quality



Flood control requirements will be separate

DURING CONSTRUCTION

**Plan Review and Implementation of BMPs
before and during Construction**

Regulated Projects

Any Development or Redevelopment project that involves land disturbing activity that requires a building, electric, plumbing, grading, grubbing, stockpiling, or trenching permit is considered a regulated project under the City's Revised Water Quality Rules.



Erosion and Sediment Control Plans (ESCP)

Regardless of the project size, location or schedule, the new Rules require:

- 1) Erosion Prevention BMPs**
- 2) Sediment Control BMPs**
- 3) Good Housekeeping BMPs**

****No requirement for Soil Loss Calculations***

Category 1A/1B ESCP Small Project Template



City and County of Honolulu

Appendix A

Erosion and Sediment Control Plan Category 1A Template

Construction Site Project Name: _____

Physical Site Address: _____

Erosion and Sediment Control Coordinator: _____ Phone Number: _____

Building Permit Number: _____

Instructions:

This completed template is to be used as the Erosion and Sediment Control Plan (ESCP) for projects which fall under the City and County of Honolulu, Department of Planning and Permitting (DPP) Category 1A: Single-family or Two-family detached residential building projects that disturb less than 1,000 square feet of land and where there will not be land disturbing activities on slopes greater than 15%.

This ESCP must be submitted as part of the Building Permit application and made available on the job site at all times. This ESCP may be prepared by the owner of the project or an authorized representative designated by the owner. Both individuals must certify this ESCP below.

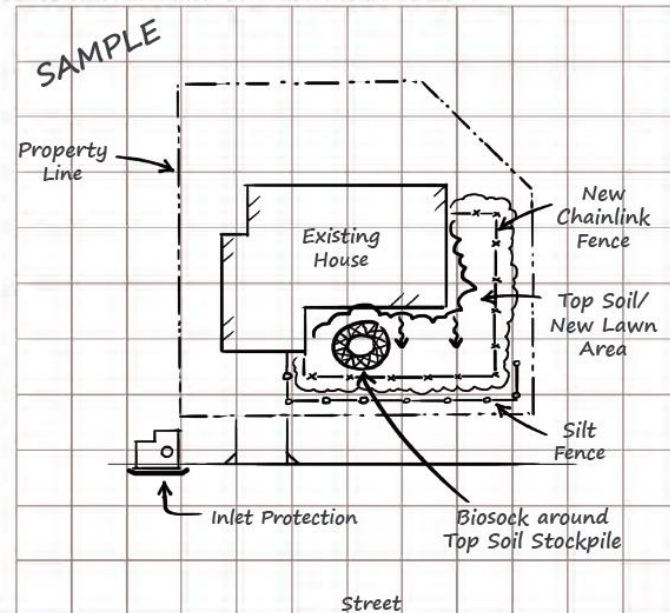
Read through the instructions for each of the three (3) sections on the next pages, **I. Erosion Prevention**, **II. Sediment Control**, and **III. Good Housekeeping**. Any best management practices (BMP) boxes that are checked are mandatory during construction. For more information on each type of BMP, this template lists applicable fact sheet numbers from the City's Construction BMP Manual that may help you decide on which BMP type to use and how to use them. The manual is available on the DPP website. For any conflicting information between the Rules Relating to Water Quality and the Construction BMP Manual, the requirements of the Rules shall be followed. If other BMPs not listed are used to achieve the same or similar results, attach additional documentation.

I. EROSION PREVENTION: practices that prevent erosion from occurring		
BMP	Check Appropriate Box	Reference Factsheets
1. Project Scheduling Notify the DPP two (2) weeks prior to starting work. Attach a Project Schedule to this ESCP including dates when BMPs will be installed, when land disturbing activities will begin and end, and dates when BMPs will be removed.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	EC-1
2. Permanent Stabilization Prior to final approval and closing of the permits for work on the project site, permanent stabilization must be in place.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	N/A

II. SEDIMENT CONTROL: practices to prevent soil and sediment from leaving the project site and entering storm drains during rain events		
BMP	Check Appropriate Box	Reference Factsheets
1. Perimeter Controls Sediment fences or barriers shall be used at the perimeter of all disturbed areas if there is the potential for runoff to flow off the project site, and around the base of all material stockpiles. These may include gravel bags, sand bags, fiber rolls, silt fences, or compost socks that intercept runoff.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	SE-1, SE-5, SE-6, SE-8, SE-16
2. Storm Drain Inlet Protection Inlet protection is required over storm drains within 50 feet of your project site unless those inlets drain to a sediment basin or trap.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	SE-10

SITE DIAGRAM

Provide a drawing of your site below or attach another map. Include the building outlines, property boundary or fence line, flow path for storm water runoff, any BMPs planned, the limits of where your work will be located, and any storm drains within 50 feet of your property. The drawing does not need to be to scale.



CERTIFICATION

By signing, you acknowledge that you understand that erosion prevention, sediment control, and good housekeeping BMPs in this plan are mandatory conditions of your building permit and are subject to inspection and enforcement by the Department of Planning and Permitting.

Owner Name _____ Signature _____ Date _____

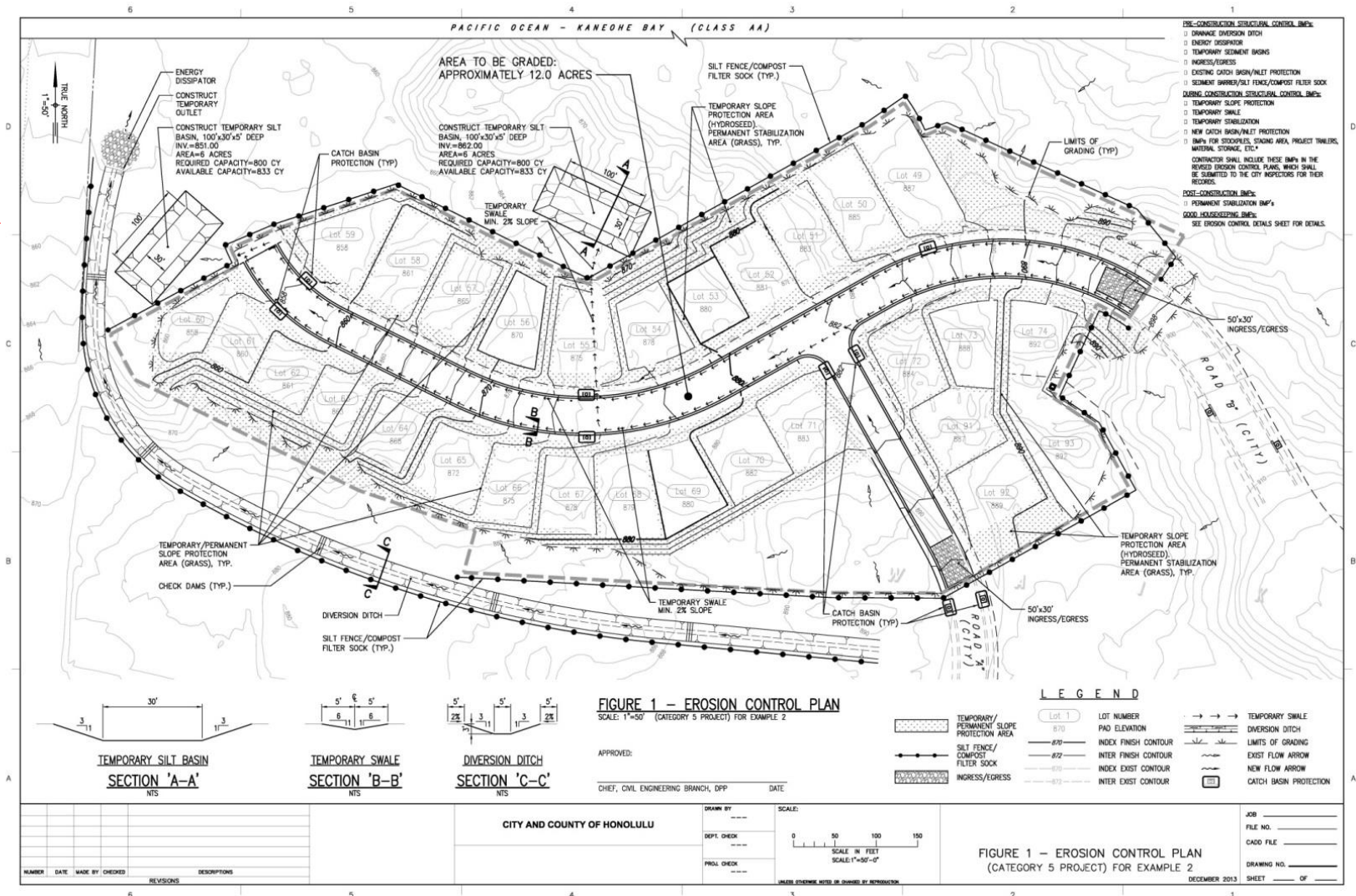
ESCP Coordinator Name _____ Signature _____ Date _____

Category 3-5 & 1C ESCP:

BMP
Inventory



Site
Plan



Example ESCP (continued)

Details

Sequence

Notes

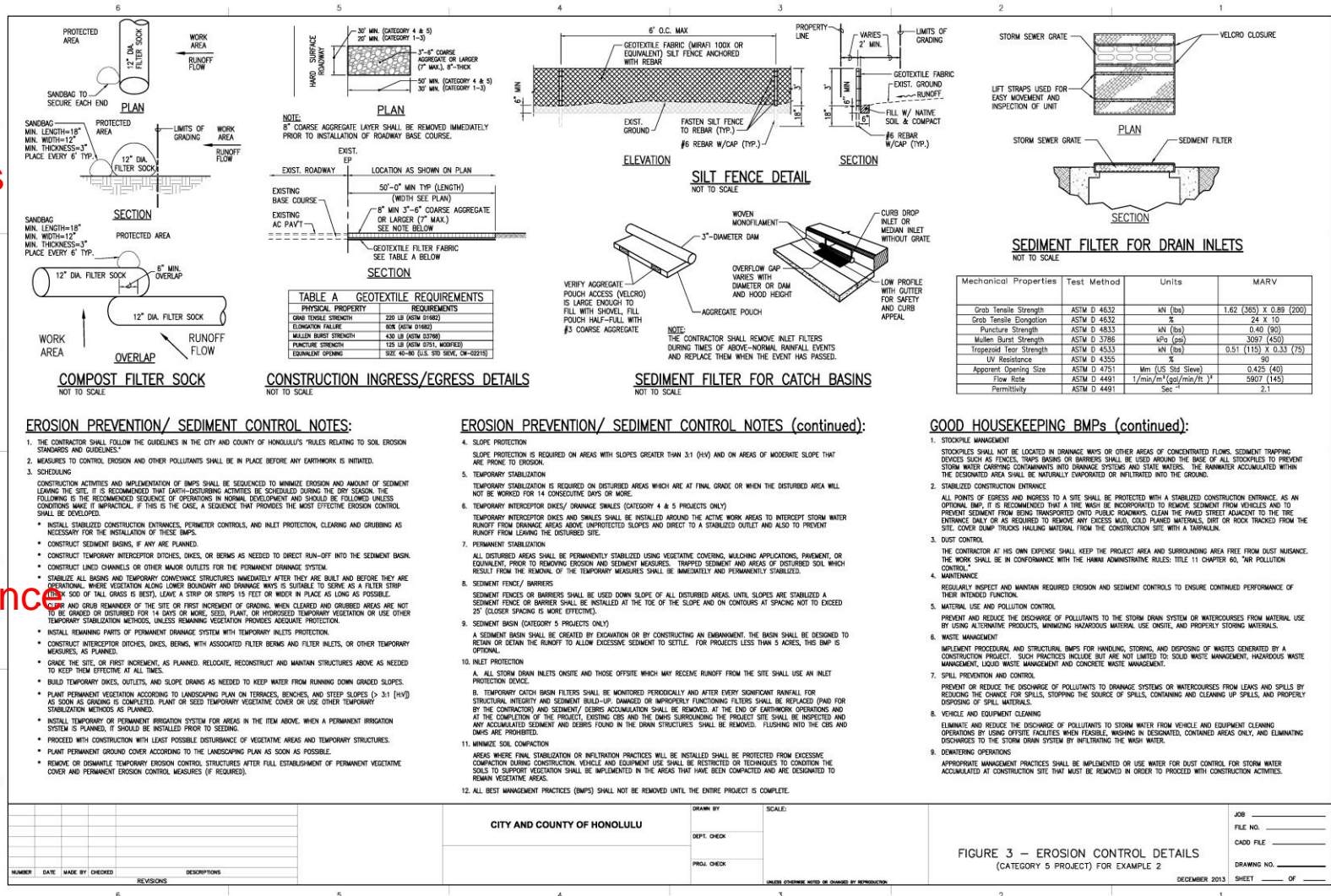


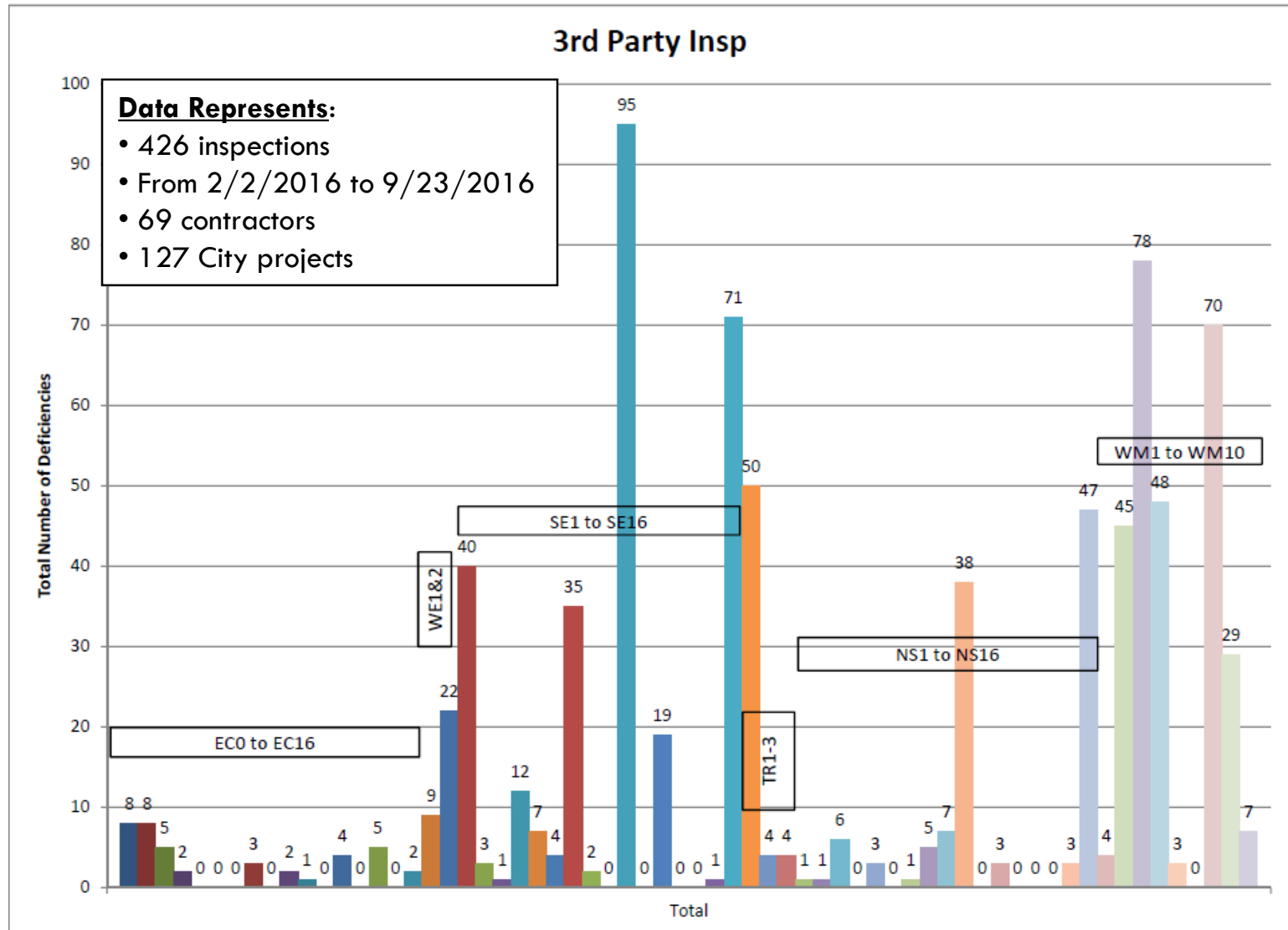
FIGURE 3 - EROSION CONTROL DETAILS
(CATEGORY 5 PROJECT) FOR EXAMPLE 2

DECEMBER 2013

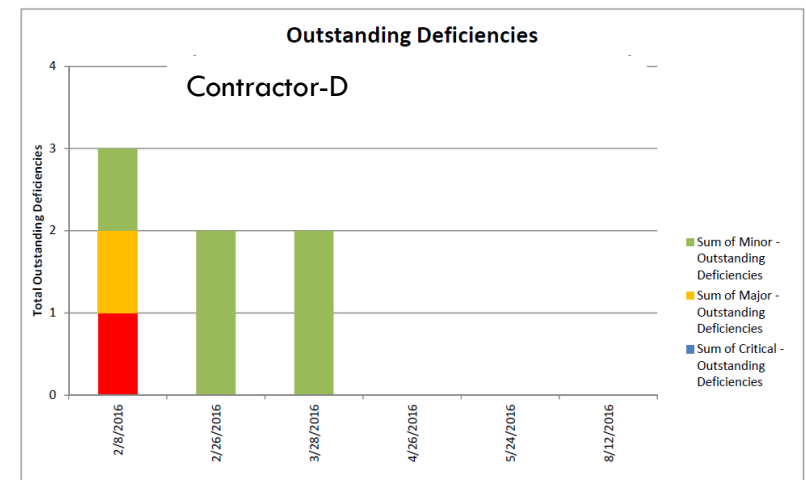
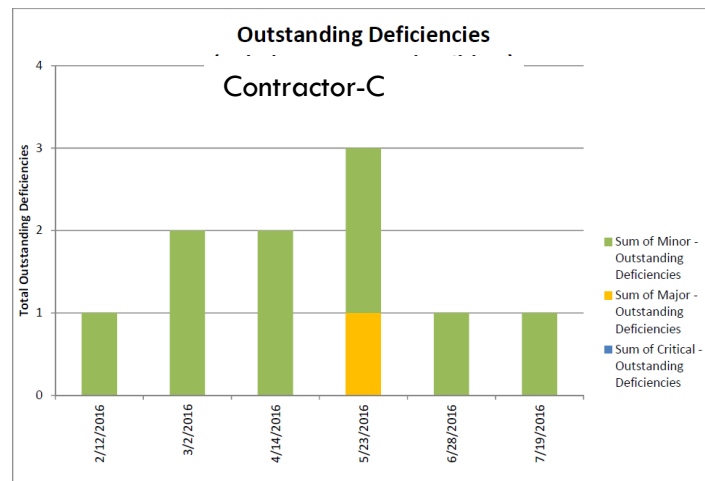
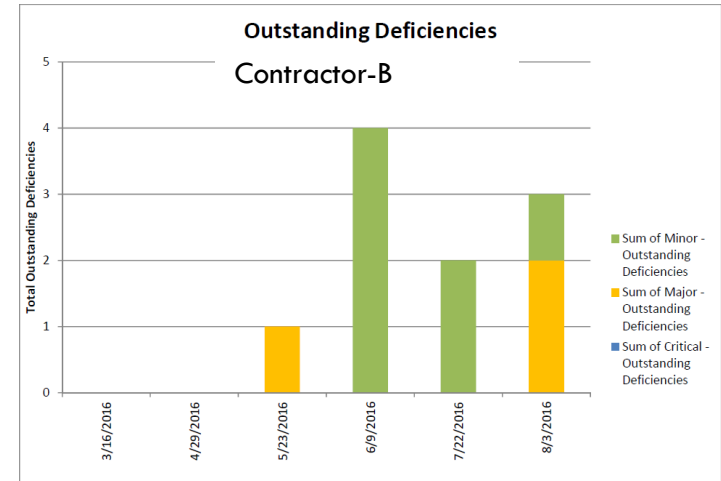
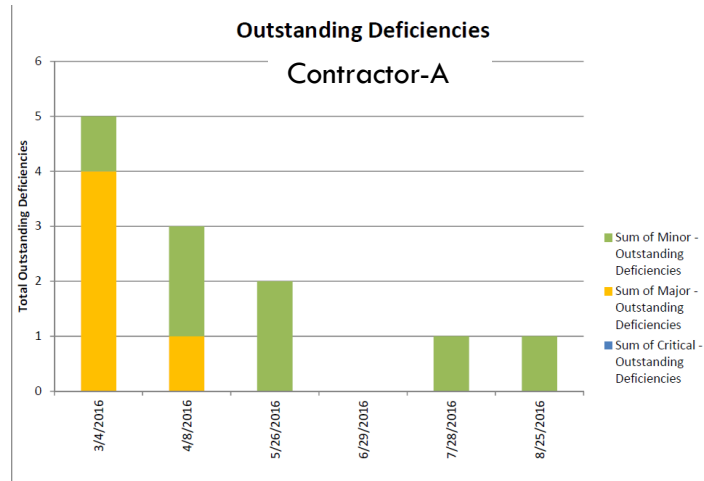
Program Assessment - Inspections

- ☐ Self Inspections (Contractor)
- ☐ City Inspections (DDC/DPP/DTS/ENV)
- ☐ 3rd Party Oversight Inspections (DFM)

Monthly 3rd Party Inspections CITY Projects

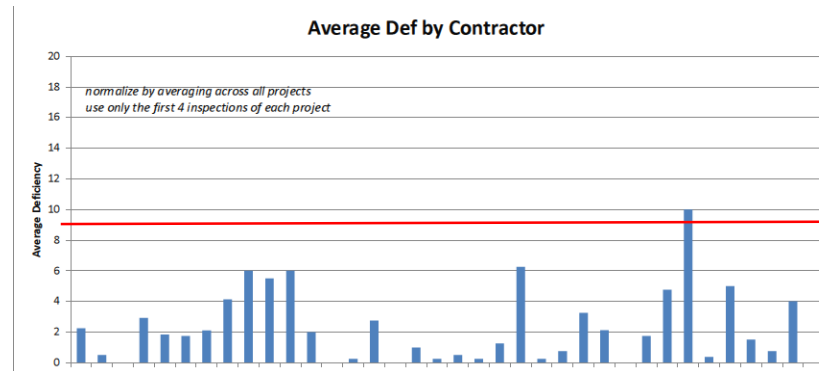


Monthly 3rd Party Inspections CITY Projects

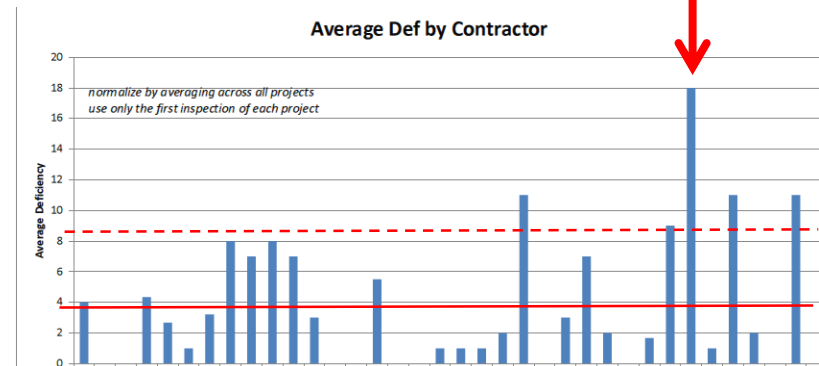


Monthly 3rd Party Inspections CITY Projects

First 4 insp
Avg ~ 2.3



First insp
Avg ~ 3.9
Avg+1sd ~ 8.2



Would first insp
suggest problem
contractor??

POST-CONSTRUCTION

Plan Review and Implementation of BMPs following Construction

“Development”

“Development” means the sum of any and all actions that are undertaken to alter the natural or existing condition of real property or improvements on real property if a building, electric, grading, grubbing, plumbing, stockpiling or trenching permit is required for the Project. Development also includes Redevelopment and changes in land use that may result in different or increased Pollutant discharges to the MS4 or Receiving Waters.”

“Redevelopment”

“Redevelopment” means the **creation, addition,** and/or **replacement** of impervious surface on improved real property. Redevelopment does not include trenching and resurfacing associated with utility work, resurfacing and reconfiguring existing impervious surfaces, the repair of sidewalks or pedestrian ramps, pothole repair, ordinary road maintenance or the marking of vehicular or pedestrian lanes on existing roads.”

“Replacement of Impervious Surface” includes any activity that is not part of routine maintenance and where impervious materials are removed, exposing underlying soil during construction.

Best Management Practices (BMPs)



Reduce Pollutants by retaining, reusing and/or infiltrating stormwater.

collect

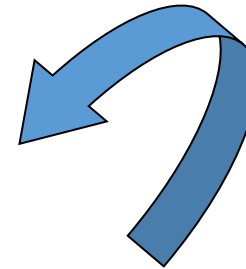


**LOW IMPACT
DEVELOPMENT**



infiltrate

filter



reuse



CATCH BASIN

drain



Bioretention/Rain Gardens



Vegetated Swales



Green Roofs



Cisterns/Rain Barrels/Catchment



Permeable Pavements



Porous Pavement





Storm Water Quality

Facility Maintenance Home

Storm Water Quality Branch

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Rules Relating to Water Quality

City and County of Honolulu – Department of Planning and Permitting (click link below)

[Complete Rules Relating to Water Quality & Related Resources](#)

Summary:

- Rules Relating to Soil Erosion Standards and Guidelines, effective April 8, 1999, is repealed.
- §1-5 Section II - Standards for Storm Water Quality, Rules Relating to Storm Drainage Standards, effective June 1, 2013, is repealed.
- Rules Relating to Water Quality of the Administrative Rules, Title 20, Department of Planning and Permitting, Chapter 3, is adopted August 16, 2016 and effective August 16, 2017.

NEW RULES RELATING TO WATER QUALITY

CONSTRUCTION (TEMPORARY) BEST MANAGEMENT PRACTICE REQUIREMENTS

Construction projects on a lot, lot, and other lands to be developed, including but not limited to, construction of new buildings, structures, and other improvements, shall comply with the following requirements:

Don't Allow This To Happen:

- Ground disturbing activities include:
 - Grading
 - Excavating
 - Clearing
 - Grading, grading, and grading
 - Grading, grading, and grading
 - Grading, grading, and grading
 - Grading, grading, and grading
 - Grading, grading, and grading

When conducting or performing ground disturbing activities, you will need to have a temporary best management practice in place to prevent erosion and sediment runoff and to prevent sediment from entering the storm drain system.

Character of Requirements for Ground Disturbing Construction Projects:

- Develop an Erosion and Sediment Control Plan in accordance with the current BMP Manual.
- Install temporary best management practices.
- Install an Erosion and Sediment Control Plan.
- Install the Department of Planning and Permitting's Erosion and Sediment Control Plan.
- Install an Erosion and Sediment Control Plan.
- Install an Erosion and Sediment Control Plan.
- Install an Erosion and Sediment Control Plan.
- Install an Erosion and Sediment Control Plan.

POST-CONSTRUCTION (PERMANENT) BMP REQUIREMENTS

When conducting or performing ground disturbing activities, you will need to have a permanent best management practice in place to prevent erosion and sediment runoff and to prevent sediment from entering the storm drain system.

Character of Post-Construction BMP Requirements:

- Develop an Erosion and Sediment Control Plan in accordance with the current BMP Manual.
- Install permanent best management practices.
- Install an Erosion and Sediment Control Plan.
- Install the Department of Planning and Permitting's Erosion and Sediment Control Plan.
- Install an Erosion and Sediment Control Plan.
- Install an Erosion and Sediment Control Plan.
- Install an Erosion and Sediment Control Plan.
- Install an Erosion and Sediment Control Plan.

www.honoluludpp.org





CITY AND COUNTY OF HONOLULU

Department of Planning and Permitting (DPP)

Aloha. We provide services and information on building permits, development projects, and planning activities for the City and County of Honolulu.

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You are here: [HOME](#) > [Applications & Forms](#) > [Storm Water Quality](#)

Storm Water Quality – Erosion Sediment Control Plan & Post Construction Best Management Practices

Category	Title	Modified Date	Size	
Storm Water Quality	Getting Started - Applicability Check List	8/21/2017	114.21 KB	Download
Storm Water Quality	How to Prepare Erosion & Sediment Control Plan for Small Projects	8/21/2017	3.73 MB	Download
Storm Water Quality	Rules Relating to Water Quality (Amended 7/14/17; Effective 8/15/17)	8/10/2017	476.15 KB	Download
ESCP	Appendix A - Category 1A ESCP Template	8/11/2017	88.59 KB	Download
ESCP	Appendix B - Category 1B ESCP Template	8/11/2017	129.74 KB	Download
ESCP	Appendix C - Small Projects Inspection Checklist	8/11/2017	99.07 KB	Download
ESCP	Appendix D - NPDES Permitted (1 Acre or Greater) Projects Inspection Checklist	8/11/2017	156.32 KB	Download
ESCP	Minor Trenching Projects ESCP Template	9/6/2017	250.51 KB	Download
ESCP	Construction BMP Standards and Notes	8/15/2017	843.78 KB	Download
PCBMP	Appendix E - Priority A & B1 SWQR Template (pdf)	8/15/2017	88.06 KB	Download
PCBMP	Appendix E - Priority A & B1 SWQR Template (Word file)	8/15/2017	41.93 KB	Download
PCBMP	Appendix F - Feasibility Screening Worksheet	8/11/2017	82.15 KB	Download
PCBMP	Appendix G - Priority B2 SWQR Template	8/11/2017	87.36 KB	Download
PCBMP	Appendix H - Operation & Maintenance Template (pdf)	8/15/2017	72.23 KB	Download
PCBMP	Appendix H - Operation & Maintenance Template (Word file)	8/15/2017	45.06 KB	Download
PCBMP	Appendix I - Certificate of Completion Form	8/11/2017	73.34 KB	Download
PCBMP	Affidavit - PCBMP and O&M Plan	8/11/2017	8.56 KB	Download
PCBMP	PCBMP Field Inspection Report	8/11/2017	7.95 KB	Download
PCBMP	Storm Water BMP Guide For New and Redevelopment	8/11/2017	3.00 MB	Download
PCBMP	BMP Sizing Worksheets	8/15/2017	140.70 KB	Download
Forms	ESCP and CWPP Authorization Letter	8/11/2017	15.84 KB	Download
Forms	ESCP Letter of Compliance	8/11/2017	16.78 KB	Download
Forms	PCBMP Letter of Compliance	8/11/2017	19.05 KB	Download
Forms	Petition for a Variance	8/11/2017	174.67 KB	Download

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City and County of Honolulu, Department of Planning & Permitting
650 So. King St., Honolulu, HI 96813 • Fax: (808) 768-6743
email: info@honoluludpp.org

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Web-Based Certification/Training

Web-Based training certification

- **Erosion and Sediment Control Plan” or “ESCP” Coordinator:** Designee responsible for the implementation, inspection and oversight of an approved Erosion and Sediment Control Plan (ESCP) during construction who has a current ESCP coordinator certificate from the City’s Department of Planning and Permitting. This person can be a homeowner, contractor or authorized representative approved by the property owner
- **Certified Water Pollution Plan Preparer” or “CWPPP”:** Architect, Engineer, Land Surveyor, or Landscape Architect licensed in the State of Hawaii who has a current Water Pollution Plan Preparer Certificate from the City’s Department of Planning and Permitting. This licensed professional is responsible for developing any post-construction Best Management Practices (BMP) plans that are approved by the department that addresses any source, treatment and Low Impact Development (LID) design requirements in accordance to the Rules Relating to Water Quality. CWPPPs are also responsible for conducting site observation(s) to attest that post construction BMPs and source control BMPs appear to have been installed in general conformance according to the approved construction plans and certifying as part of the Certificate of Completion prior to closing of any applicable building or grading permits.

CLICK HERE



ESCP Coordinator training

CLICK HERE



CWPPP training

[ESCP and CWPPP Annual Web-Training INSTRUCTIONS](#)

WARNING: Do not use the “Certificate” function at the end of the CWPPP training course. Please follow the instructions to print your certificate



[Click here for a current listing of Pre-Qualified Certified Water Pollution Plan Preparers \(CWPPP\)](#)

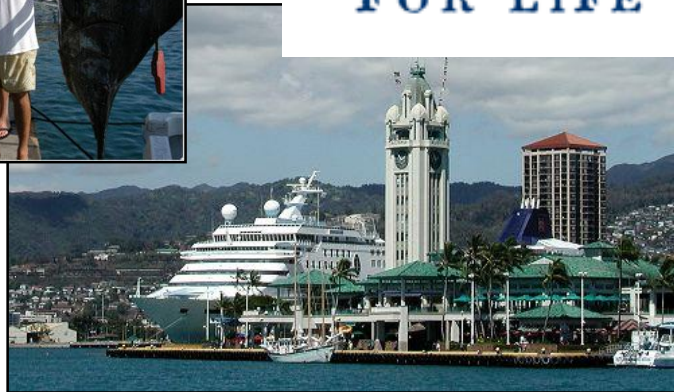
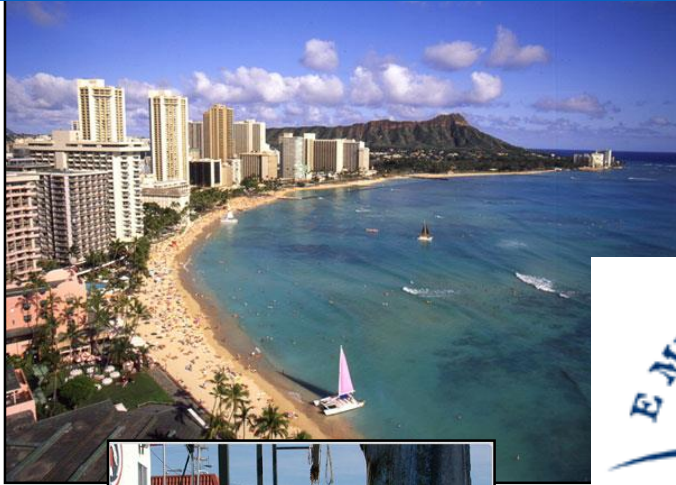
Erosion and Sediment Control Plan Coordinator

- “ESCP Coordinator” means the designee **responsible for the implementation of an ESCP who has a current ESCP coordinator certificate from the Department.** The designation of an ESCP Coordinator does not relieve the property owner or other responsible parties from compliance with these Rules or liability for violations of the same.
- Requires a training, test, and certification from DPP.
- No professional credentials required.
- Responsible for implementation of BMPs and inspections.

Certified Water Pollution Plan Preparer

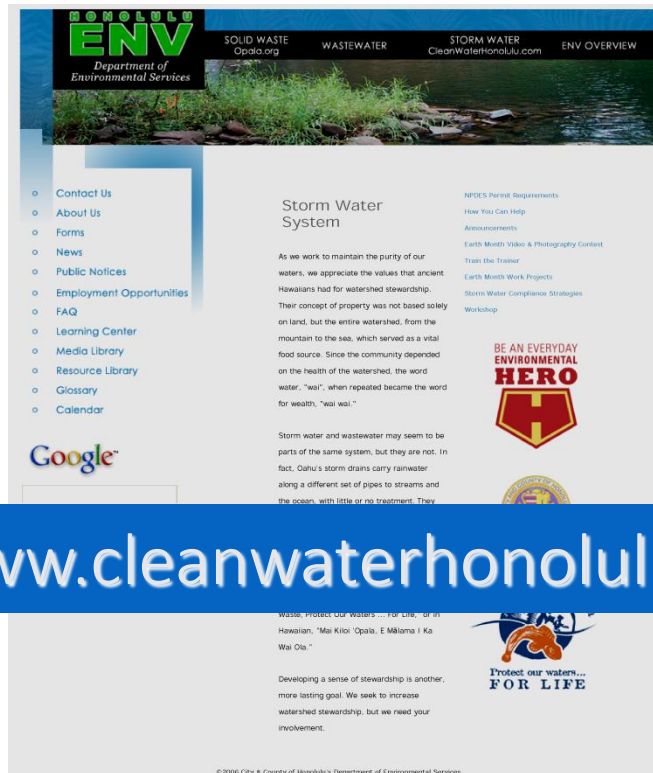
- “Certified Water Pollution Plan Preparer” means an **Architect, Engineer, Land Surveyor, or Landscape Architect licensed in the State of Hawaii** who has a current **Water Pollution Plan Preparer Certificate** from the Department.
- Requires a training, test, and certification from DPP.
- Required to prepare Storm Water Quality Report/Checklist.
- Required to certify that post-construction BMPs are installed properly.

QUESTIONS



THANK YOU

For More Information:



RANDALL WAKUMOTO, BRANCH HEAD
Storm Water Quality Branch

Ph: 768-3242

Email: rwakumoto@honolulu.gov

City & County of Honolulu
Department of Facility
Maintenance



Environmental Concern Line

768-3300